

Android
Field Software





Cube-a is Stonex's solution for professional surveying and GIS which has been designed and developed for the Android platform.

Thanks to the flexibility of the Android environment, we have been able to create a simple and intuitive user interface that makes surveyors ready for any work, saving time and increasing productivity.

Full support for touch gestures and the possibility to install it on Smartphones and Tablets are the keys to the success of Cube-a. It also includes support for many languages and adjusts its interface as from the current system language setting.

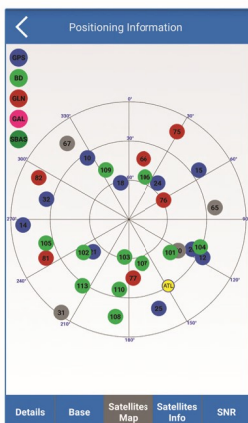
Cube-a is available in three versions: Cube-a for GNSS, Cube-a for GNSS+GIS and Cube-a for mechanical and robotic Total Stations.

Cube-a | Stonex field software

Stonex field solutions for GNSS RTK, GIS and Total Station surveys will make operators' work quick and easy, ensuring high productivity in all jobs requiring precision and efficiency.

GNSS

Cube-a is compatible with all Stonex GNSS Receivers. Supports Rover, Rover Stop&Go, Base and Static modes. Various screens provide useful information on the status of the GNSS receiver including the position and the signal quality of the Atlas satellite.



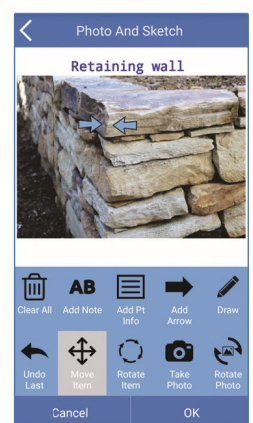
SURVEY

A simple and intuitive survey interface with numerous indicators immediately helps the surveyor to understand what kind of work and in what conditions is taking place. Indicators show various information like solution status, position precision, battery levels, RTK correction delays and more. Intuitive screens allows for an easy change of settings, a view of the collected points, adding new CAD elements and drawings or proceed surveying.

Point Name or Code	Code
5366	
Latitude	045°29'00.880466"
Longitude	009°21'57.779660"
Northing	5036737.220
Easting	528606.617
Altitude	155.927
5365	
Latitude	045°29'00.858874"
Longitude	009°21'57.434290"
Northing	5036736.519
Easting	528599.123
Altitude	155.733
5364	
Latitude	045°29'00.864256"
Longitude	009°21'57.088878"
Northing	5036736.651
Easting	528591.624
Altitude	155.794

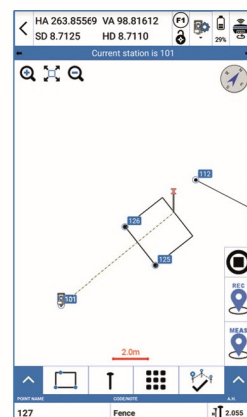
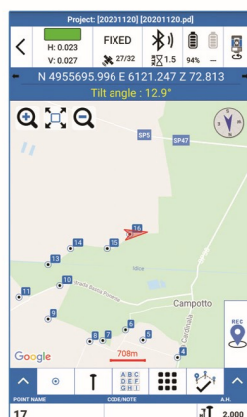
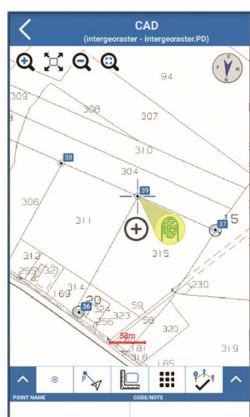
PHOTO & SKETCH

To improve and complete the survey and stakeout functions, you can also use the Photo & Sketch. This function can be used while surveying or even on the already acquired points: take photos and add notes, add and position some indicating arrows or simple hand drawn sketches.



INTEGRATED CAD

Cube-a includes a smart and easy to use CAD feature. The CAD has been designed to work with touch displays and it allows to easily draw points and other CAD entities by mean of a smart pointer which can be moved using one finger and which always transmits to the user a strong confidence of the result achieved. The help of object-snaps like point, mid-point, end-point, intersection and others makes it possible to integrate the survey with new elements directly in the field.



STAKEOUT

A compact interface groups all the stakeout launching commands in one screen for an easier work in the field. Stakeout screens are enriched with both graphical and analytical indicators which guide the surveyor in order to reach the target point. Thanks to this interface, you can read all the information necessary to complete the stakeout work, to select points or to add them and quickly change all settings. Even in case of small monitors, the information and commands are always smartly arranged and readable, the buttons are clickable without difficulty and some of them can be reduced to leave more space for the map.

TOTAL STATION

Cube-a has been designed to fully support mixed surveys. A Cube-a survey supports GPS points and classical polar stations and measures at the same time. Polar stations can be set to occupy previously collected GPS points or on unknown positions calculated using the Free Stationing program. Likewise, the GPS reference system can be adjusted to match an existing polar survey in local coordinates. Cube-a supports all Stonex Total Stations via Bluetooth.

GIS

GIS functionalities are well integrated in the workflow of standard GPS surveying. Thanks to the Cube-a's ability to collect, not only single points but also to automatically draw vectors passing through the collected points, GIS surveying becomes fast and easy. The request to fill in the GIS data is automatic and automatically follows the point or vector acquisition. Data forms can be freely defined using the integrated Feature Set designer or automatically created by Cube-a starting from a sample DBF file. Import and export of standard shapefiles ensures the compatibility and interoperability of Cube-a with virtually any other GIS software.

Cube-a FEATURES

GPS GIS* TS

GPS GIS* TS

PROJECT MANAGEMENT

Job management	✓	✓	✓
Survey Point Library	✓	✓	✓
System settings (units, precision, parameters, etc.)	✓	✓	✓
Import/export ASCII and DXF	✓	✓	✓
Import/export Esri Shape (with attributes)		✓	
Export Google Earth KML/Send to Google Earth	✓	✓	
Import Raster Image	✓	✓	✓
Share files by cloud services, e-mail, Bluetooth, Wi-Fi	✓	✓	✓
Real time maps support	✓	✓	✓
Send to Google Earth	✓	✓	✓
Customizable ref. systems also by remote RTCM messages	✓	✓	
Features codes (multiple feature tables)	✓	✓	✓
Fast Coding Panel	✓	✓	✓
Define GIS features and attributes		✓	
Bluetooth Disto support	✓	✓	✓

GNSS MANAGEMENT

Support for Stonex receivers	✓	✓	
Generic NMEA (support for third party receivers) - Rover only	✓	✓	
Receiver status (quality, position, sky view, satellites list, base info)	✓	✓	
Full support for features like E-Bubble, Tilt, Atlas, SureFix	✓	✓	
Network connections management	✓	✓	
Support of RTCM 2.x, RTCM 3.x, CMR, CMR+	✓	✓	
Automatic GNSS model & features detection	✓	✓	
Automatic antenna offset management	✓	✓	
Bluetooth and Wi-Fi GNSS connection	✓	✓	

TS MANAGEMENT

TS Bluetooth	✓		
TS Long Range Bluetooth	✓		
Search and prism tracking (Robotic only)	✓		
Compensator interface	✓		
Station on point	✓		
Free station / Least squares resection	✓		
TS orientation st.dev. and check orientation	✓		
Topographic basic calculation	✓		
Rotate to GPS position**	✓		
Rotate to given point	✓		
Export TS raw data	✓		
Export mixed GPS+TS raw data	✓		✓

SURVEY MANAGEMENT

Localization by one point and by multiple points	✓	✓	✓
Transformation from GPS to grid and vice versa	✓	✓	
Cartographic predefined reference systems	✓	✓	✓
National grids and geoids	✓	✓	
Integrated CAD with o-snaps****	✓	✓	✓
Layers management	✓	✓	✓
Custom Point Symbols and Symbol Library	✓	✓	✓
Entity acquisition management	✓	✓	✓
Point Survey	✓	✓	✓
Hidden points calculation	✓	✓	✓
Automatic point collection	✓	✓	✓
Control RAW data recording for Static and Kinematic post-processing	✓	✓	
Point stakeout	✓	✓	✓
Line stakeout	✓	✓	✓
Height Stakeout (TIN or inclined plane)	✓	✓	✓
Stakeout reports	✓	✓	✓
Mixed Surveys**	✓	✓	✓
Measures (area, 3D distance, etc)	✓	✓	✓
Display functions (zoom, pan, etc)	✓	✓	✓
Surveying tools (quality, battery and solution indicators)	✓	✓	
Visualization of the drawing on Google Maps/BingMaps/OSM	✓	✓	✓
Adjust background map transparency	✓	✓	✓
Map rotation in the direction of walking (using tablet e-compass)	✓	✓	✓
Sensor Calibration	✓	✓	
Info commands (id, distance, area, angle, distance to object)	✓	✓	✓
Corner Point	✓	✓	
Snap to object	✓	✓	✓
Record Settings	✓	✓	
COGO (perimeter, area, calculator, etc)	✓	✓	✓
Ability to freehand sketch in the pictures of collected points	✓	✓	✓
Pregeo (Italian Cadastral data)	✓	✓	✓
Road stakeout****	✓	✓	✓
Raster georeferencing****	✓	✓	✓
Adjust raster images opacity	✓	✓	✓

GENERAL

Automatic SW updates***	✓	✓	✓
Direct technical support	✓	✓	✓
Unique license for tablet/handheld software version	✓	✓	✓

Illustrations, descriptions and technical specifications are not binding and may change

*GIS available only if GPS module enabled.
 **Available only if GPS and TS modules enabled
 ***Internet connection required. Additional charges could apply.
 ****Planned for Q1 2021

STONEX AUTHORIZED DEALER

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